

Patent Application of Nikolai A. Beloreshki and Temenuzhka B. Beloreshka
Double Joints Pavement System
Page 16

ABSTRACT

A construction joint implement and method for its use in the construction of surface pavement (e.g., roads, highways, airports, and parking lots of concrete or asphalt) comprise a trapezoidal shaped reinforcing beam or a modified reinforcing beam made of a rigid material such as concrete and placed along the entire length of the joint and not bounded to either part of the slab. The beam supports both edges along the entire length of the joint and avoids the need for Dowel bars. The beam has a large base which distributes the load on large area, leading to decreasing pressure and reduced deformation on the base. Water stops may be built in on both sides of the beam to make the beam fully waterproof. Multiple beams divide the width of pavement into strips. Every strip can then be filled independently using smaller-sized paving machines (e.g., roller or vibro screeds).